

Requirements for the Group Project
CS3670
Fall AY04

Project Description

As a group, research an area of security: technical, procedural or physical. Present your findings in both a written report and a class presentation. Only one topic will be allowed per section, so topics are “first come, first serve”.

Example projects:

1. Given various locks, how long will it take you to find the combo? Are there shortcuts? (Lock types: spin dial (Master), 3-digit dial, 4-digit dial.)
2. How hard/easy is it to fool a fingerprint authentication device?
3. Cipher locks: what is the default combo? How hard is it to determine the combo?
4. Given a disk (floppy, CD, etc.) that has been formatted, can data be retrieved w/o special hardware?
5. Study the software and procedural options for easier Patch Management.
6. Build a Pringles can directional antenna for 802.11b, and determine where in the bay area you can connect to the NPS wireless network. How does this compare with no directional antenna?
7. Compare and contrast security policies and acceptable use policies from other large organizations.
8. Study the options for managing audit logs in a large enterprise.

Written Report (50%)

1. The PowerPoint slides from your presentation do **NOT** qualify as a written report.
2. Describe your project and how you went about accomplishing the task.
3. What problems did you encounter along the way? What is your level of expertise in this area? How has this project changed how you view security?
4. Describe the responsibilities of each group member.
5. I would expect that a written report of your work would require at least 2-3 pages.
6. Grading factors:
 - a. How well the material was presented.
 - b. Was there a sufficient level of effort to complete the task?

Presentation (50%)

1. The presentation should take between 20 and 25 minutes (which includes question and answer time from the class).
2. If appropriate, give a demonstration.
3. Grading factors:
 - a. Quality of presentation.
 - b. Did you stay within the allotted time? [Audience questions don't count against you, but it can help you.]